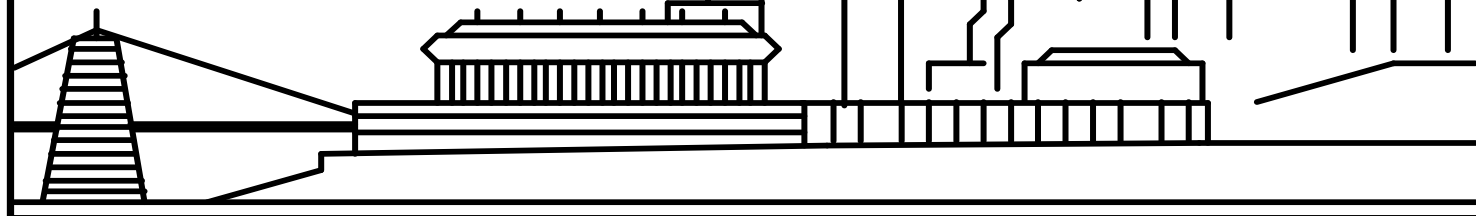




**INSTITUTE OF
ELECTRICAL &
ELECTRONICS
ENGINEERS, INC.**



MARCH 1993

IEEE CINCINNATI SECTION NEWSLETTER

MARCH MEETING: Applications of Fuzzy Logic to Industrial Control

DATE: Wednesday, March 17, 1993

PLACE: Institute of Advanced Manufacturing Sciences (IAMS)

TIME: 5:30 Social Time
6:00 Dinner (Baked Lasagna)
7:00 Program
8:00 Adjourn

COST: \$7.00 Members
\$3.00 Students
\$9.00 Non-Members

Reservations are required for dinner only!

CALL DEE SCOTT AT 385-9946 BY NOON, TUESDAY MARCH 16th

Please provide NAME, MEMBER # and COMPANY NAME when making reservations

ABOUT THE MEETING....

This presentation, by Dr. Alfred W. Scheide, P.E., will cover the historical development of fuzzy logic, basic theory and concepts and the Japanese strategy for application of this technology. The relationship to neural networks, open & closed loop control, and consumer product applications will be discussed. Several examples will be given to illustrate the application of fuzzy logic to industrial control.

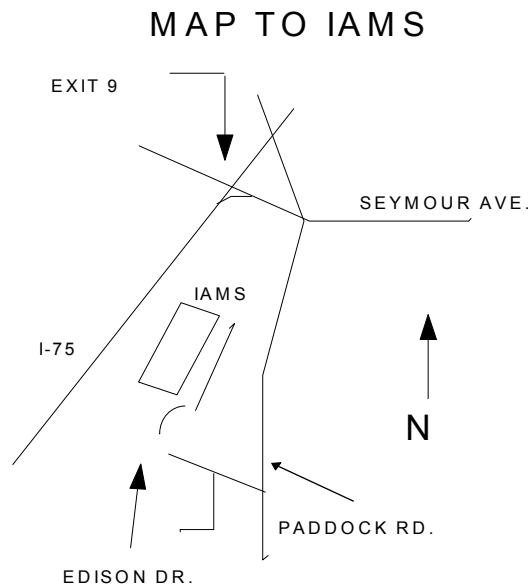
Dr. Scheide received the E.E., M.S.E.E., and Ph.D. degrees in Electrical Engineering from U.C. in 1962, 1964 and 1972 respectively. From 1962 to 1964 he was a project engineer with the Baldwin Piano and Organ Company. From 1964 until 1980, he was a member of the faculty of the Department of Electrical and Computer Engineering at UC. He joined Cincinnati Milacron in 1980 where he has held the positions of Technical Consultant, Manager of Robotic Research, Technical Director of the Laser Systems Division, Manager of Software Products, and Chief Engineer of the Advanced Manufacturing Systems Division. Dr. Scheide is currently Director of Engineering and Product Development for the Advanced Systems Division. He is a Registered Professional Engineer in the State of Ohio, a Fellow of IEEE, a Senior Member of SME and a member of Eta Kappa Nu. He teaches graduate courses and seminars in digital communications, coding and information theory, microprocessor system design, digital controls, and management of technology. He is an

Adjunct Professor of Manufacturing Engineering at Miami University. His hobbies are speleology, photography, amateur radio, magic and juggling.

DIRECTIONS

- I75 South to Paddock Rd. Exit (within I-275 beltway in Cincinnati).
- Turn left (east) onto Paddock Rd. for approx. 1/2 mile to Edison Dr. (right side of road).
- Follow the lane to the IAMS building and park in front.

SEE MAP BELOW



CHAIRMAN'S MESSAGE

By JIM EVERLY

The Engineers and Scientists of Cincinnati (ESC) banquet at the Harley Hotel was well attended this year. An awards banquet like this inspires all of us to greater accomplishments and higher standards for ourselves. For me the banquet was worth attending, and as a bonus the quality and quantity of the food was quite good. A "Job Well Done" goes to IEEE member at large Bob Haas for making the arrangements for the banquet. I hope to see IEEE better represented at next year's awards banquet.

This month's program on Fuzzy Logic by Dr. Alfred Scheide will provide an opportunity for each of us to get an overview of the applications of Fuzzy Logic to industrial controls. For a brief introduction to Fuzzy Logic, I recommend reading "Fuzzy Fundamentals", in the October 1992 IEEE Spectrum. Let's have a good turnout for this meeting. Why not consider bringing a friend with you? Better yet, bring a friend and join us for the social hour and dinner before the meeting.

The Executive Committee had its Winter Quarter meeting in February and as a result several committee members are busy at work planning future meetings for the section. To allow for advanced planning, I have included in this month's newsletter a schedule of meetings for the rest of this year. Now you don't have as many excuses for not attending the monthly meetings.

This month I would like to welcome new IEEE members as well as existing members who are new to the Cincinnati Section. The names of these individuals are included in this newsletter. A sincere thanks to Randy Holt, our membership chairman, for providing me with these names.

What would you like the Cincinnati Section of the IEEE to do? What kind of programs do you want? Please give me a call or drop me a line at Mail Location 103, University of Cincinnati. The Executive Committee will consider your suggestions and get back in touch with you.

**IEEE CINCINNATI SECTION MEETINGS
1993
MEETING DATES**

MONTH	SECTION	EXECUTIVE
January	21	X
February	18	4
March	17	X
April	22	29
May	20	X
June	4	X
July	X	X
August	X	26
September	23	X
October	28	21
November/	9	X
December		
January, 1994	20	13

**WE WOULD LIKE TO EXTEND A WELCOME TO THE FOLLOWING NEW
MEMBERS OF THE CINCINNATI SECTION OF THE IEEE:**

KYLE ADAMSON	ERZA KISER
YUH MIN CHEN	ROBERT G. LEESMAN
WILLIAM T. CHIANG	VLADIMIR PAVLOV
SCOTT D. COLWELL	DAVID REDDING, JR.
JAMES C. DEEL	D. BRETT RIDGELY
DAVID C. ELLERHORST	I. G. SCHWARTZBERG
RUSSELL J. GENET	BRADFORD J. SMITHWICK
KURT A. HALLOCK	JEFFERY M. SYLVIA
MELANIE R. HICKS	DENYS TULL
J. J. HOFFMAN	CHRIS WIGGINS
PATRICK J. HOWARD	JOHN P. WOODHAM
RICHARD E. HUNTER, JR.	LUN YE
ARI M. HUOSTILA	

FROM THE IEEE USA HOTLINES - MARCH 1993

Beware-New Tax Rules Affect 401k Funds

Planning a job change in 1993? Be aware that new tax rules will affect your 401k funds distribution. Under the new rules, if you change jobs or retire and take a lump sum distribution, instead of leaving the funds with your old employer or doing a trustee-to-trustee transfer into new Individual Retirement Account or new 401k, 20 percent of your funds will be withheld.

Why the new rule? The Government's official word is that the new taxes collected will be used to ensure that an individual's pension is protected. The unofficial word is that this rule may be an easy way to raise taxes. Many people will not even be aware of the rule change. If job changes are involuntary, workers may overlook the new rule while trying to deal with lay-offs or forced retirements. The rule could lead to more people losing pensions instead of saving them.

Many employers are establishing procedures to handle trustee-to-trustee transfers. If you are changing jobs or retiring, consult a financial adviser about the best way to handle your 401k funds.

Energy Efficiency

IEEE's United States Activities Board recently approved the following position statement on Energy Efficiency:

IEEE-USA concludes that energy efficiency must form an integral component of a comprehensive national energy policy designed to insure a reliable, economical and environmentally sound energy supply. Further, IEEE-USA recommends that the Government and the energy-consuming public give a high priority to promoting aggressive research, development, commercialization, and use of efficient energy conversion technologies.

Copies of this Position Statement are available from the IEEE-USA Office in Washington, D.C.

Jim Everly - Chairman

777-7129 (Home); 556-4224 (Fax)

Bill Lohner - Vice Chairman

556-4241 (Office)

Orest Melnyk - Treasurer

385-7268

Steve Olenick - Secretary

397-9212

Bob Morrison - Editor

573-6555

287-3697 (Office); 287-3698 (Fax)

MARCH 1993

IEEE CINCINNATI SECTION NEWSLETTER



The Technical Societies Council

University of Cincinnati

641B Baldwin Hall

Mail Location 18

Cincinnati, OH 45221

DATED MATERIAL

Please deliver promptly

If undeliverable, please discard